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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
. 10/733,169		12/11/2003	Peiguang Zhou	KCX-652 (18776) 5949	
22827	7590	12/08/2005		EXAMINER	
DORITY &	MANN	ING, P.A.	COLE, ELIZABETH M		
POST OFFIC				ART UNIT	PAPER NUMBER
GREENVIE	GREEN TELES, DO 27002 1117			1771	

DATE MAILED: 12/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/733,169	ZHOU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Elizabeth M. Cole	1771					
The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
· · · · · · · · · · · · · · · · · · ·	s action is non-final.						
3) Since this application is in condition for allows	ince except for formal matters, pr	osecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-91</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>9-11,13-16,19,20,32-34,37-40,54,55,61 and 64-91</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8, 12, 17-18, 21-31, 35-36, 41-53,56-60,62-63</u> is/are rejected.							
7) Claim(s) is/are objected to.	•						
8) Claim(s) are subject to restriction and/	or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summan	y (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 10/25/04 10 15/04	6) Other:	Patent Application (PTO-152)					
U.S. Patent and Trademark Office							
	ction Summary	Part of Paper No./Mail Date 120505					

12/09/04) Office 3/01/05/05/06/128/04

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4, 7, 12, 18, 21-22, 26, 29, 35-36, 43-44, 47, 48, 50-51, 53, 56-57, 62 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 1,212,974. EP '974 discloses a scrubbing sheet comprising an absorbent material and a plurality of plies of a scrubbing material. The plies may be stitched to the absorbent material. The absorbent material can comprise nonwovens and papers and can be formed from natural or synthetic fibers. EP '974 teaches that cleaning sheets which comprise a plurality of nonwoven layers can comprise meltblown webs, coforms, spunbondeds, carded web, as well as air laid and wet laid webs. Cellulosic layers can be used as the cleaning layers, while synthetic polymers can form the scrubbing layers. See paragraphs 0011 – 0026. EP '974 teaches that besides heat and adhesive bonding that stitching can also be used to bond the layers of the cleaning sheet together. See paragraph 0026. The cleaning sheet can comprise various additives such as cleansers, skin conditioners, etc. See paragraphs 0027-0039. The scrubbing layers can be reversibly attached to the absorbent layers and can be superimposed on each other or on different sides of the absorbent layer. See paragraph 0025-0026. Perforations would necessarily be present in the layers due to the stitching which would form holes due to the needle passing through the layers.

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 5-6, 23-25, 27-28, 30-31, 41-46, 52, 58-60 are rejected under 35 U.S.C. 4. 103(a) as being unpatentable over EP 121974 in view of Prodoehl et al, US Patent Application Publication 2003/0029895. EP '974 discloses a cleaning sheet as set forth above. EP '974 differs from the claimed invention because it does not disclose that the absorbent material comprises a plurality of plies of cellulosic material, does not disclose stitching at the periphery, and does not disclose the claimed basis weights and fiber size of the layers. Prodoehl discloses a cleaning sheeting comprising an absorbent core layer which may comprise multiple plies of a material such as cellulosic fibers and which may have a basis weight of 100-2000 gsm. The fibers can have a high surface area. See paragraphs 0035 -0045. A scrubbing layer is disposed on the absorbent core layer. The scrubbing layer can comprise a plurality of plies of material and can comprise fibers having a diameter of 0.1-1 mm and a basis weight of 7-120 gsm. See paragraphs 0025 - 0039. The layers can be stitched at the periphery. See paragraph 0070. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have employed the particular types of fibers for the absorbent and scrubbing layers as taught by Prodoehl, as well as the basis weights and stitching configuration, motivated by the teaching of Prodoehl, that these elements were useful in

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forming scrubbing implements having an absorbent core. With regard to the limitation that the thread is an elastic thread, while both references teach stitching the layers to bond them, both are also silent as to the particular type of thread to employ to stitch the layer. However, it would have been obvious to one of ordinary skill in the art to have selected the particular type of thread used through the process of routine experimentation which produced the most durable and securely bonded material.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over EP 1. 121974 in view of EP 0066463. EP '974 discloses a cleaning sheet as set forth above. EP '974 does not teach aperturing the sheet. EP '463 discloses a cleaning sheet comprising a plurality of plies of cellulosic material. An interlayer of an impermeable film can be placed between the cellulosic plies. See page 4, lines 32-34; page 5, lines 22-32. The layers can be joined by bonding. See page 8, lines 1-19. The plies of cellulosic material comprise a plurality of perforations. The perforations have a size of 0.01-1.2 mm. The perforations are distributed at a rate of 0.5-5 perforations per square centimeter. See page 9, lines 1-13. The apertures can extend through less than the entire thickness of the cleaning sheet. See page 6, lines 9-12. The perforations can extend from one or both sides of the cleaning sheet. See page 8, lines 28-32. One side of the cleaning sheet can comprise a plurality of abrasive structures such as fibers which are bonded to one of the cellulosic plies. Suitable materials for the abrasive fibers include polystyrene, polymethyl methacrylate and polyvinyl chloride. See page 10, lines 15-26. The cleaning sheet may be impregnated with various additives such as soap, detergent, disinfectants, skin treatments, etc. See page 3, lines 11-16. The size and

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depth of the perforations can be controlled to allow for a metered release of the added components. See page 3, lines 17-23. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have added perforation to the sheet of EP '974, motivated by the teaching of EP '463 that this would allow the additives such as detergents, etc., to be released from the cleaning sheet in a metered dose.

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Omum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 3. Claims 1-8, 12, 17-18, 21-31, 46-46, 41-53, 56-60, 62-63 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-50 of copending Application No. 10/745,327 because each discloses a wiping product comprising a plurality of plies wherein some of the plies comprise cellulosic pulp fibers and some comprise scrubbing layers. This is a provisional obviousness-type double patenting rejection.
- 4. Claims 1-8, 12, 17-18, 21-31, 46-46, 41-53, 56-60, 62-63 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as

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being unpatentable over claims 1-64 of copending Application No. 10/733,because each discloses a scrubbing product comprising a plurality of plies some of which have abrasive properties and some of which are absorbent.

- 5. This is a <u>provisional</u> obviousness-type double patenting rejection.
- 6. Claims 1-8, 12, 17-18, 21-31, 46-46, 41-53, 56-60, 62-63 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-131 of copending Application No. 10/321,831 because each discloses a cleaning sheet comprising a plurality of plies including an abrasive layer and cellulosic layers
- 7. This is a <u>provisional</u> obviousness-type double patenting rejection.
- 8. Claims 1-8, 12, 17-18, 21-31, 46-46, 41-53, 56-60, 62-63 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-220 of copending Application No. 10/322,277 because each discloses a scrubbing product comprising an abrasive layer and an absorbent layer wherein the absorbent layer can be a cellulosic web. US '277 differs from the claimed invention because it does not teach perforating the layers. EP '463 teaches that perforating the plies of a wiping sheet allows for the controlled release of additives such as detergents, etc. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have perforated the layers of US '277 motivated by the expectation that this would allow the controlled release of additives such as detergents, etc., which are added to the wiping sheet.

This is a provisional obviousness-type double patenting rejection.

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9. Claims 1-8, 12, 17-18, 21-31, 46-46, 41-53, 56-60, 62-63 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-132 of copending Application No. 10/036,736 because each discloses an absorbent material comprising a plurality of plies of tissue paper.

10. This is a provisional obviousness-type double patenting rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth M. Cole whose telephone number is (571) 272-1475. The examiner may be reached between 6:30 AM and 6:00 PM Monday through Wednesday, and 6:30 AM and 2 PM on Thursday.

Mr. Terrel Morris, the examiner's supervisor, may be reached at (571) 272-1478.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The fax number for all official faxes is (571) 273-8300.

Elizabeth M. Cole Primary Examiner

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